

**UNITED STATES DEPARTMENT OF COMMERCE****Patent and Trademark Office**Address: COMMISSIONER OF PATENTS AND TRADEMARKS
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A.S

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
08/984,562	12/03/97	MAILLOUX	J 95-0653.02

LMC1/0406

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EXAMINER

KIM, H

ART UNIT	PAPER NUMBER
2751	8

DATE MAILED: 04/06/99

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.	08/984,562	Applicant(s)	Mailloux et al,
Examiner	H. Kim	Group Art Unit	2751

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

Period for Response

A SHORTENED STATUTORY PERIOD FOR RESPONSE IS SET TO EXPIRE 3 (Three) MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a response be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for response specified above is less than thirty (30) days, a response within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for response is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication .
- Failure to respond within the set or extended period for response will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

Responsive to communication(s) filed on 1/22/99.

This action is **FINAL**.

Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 1 1; 453 O.G. 213.

Disposition of Claims

Claim(s) 22-32 is/are pending in the application.

Of the above claim(s) _____ is/are withdrawn from consideration.

Claim(s) _____ is/are allowed.

Claim(s) 22-32 is/are rejected.

Claim(s) _____ is/are objected to.

Claim(s) _____ are subject to restriction or election requirement.

Application Papers

See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

The proposed drawing correction, filed on _____ is approved disapproved.

The drawing(s) filed on _____ is/are objected to by the Examiner.

The specification is objected to by the Examiner.

The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

All Some* None of the CERTIFIED copies of the priority documents have been received.

received in Application No. (Series Code/Serial Number) _____.

received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____.

Attachment(s)

Information Disclosure Statement(s), PTO-1449, Paper No(s). _____ Interview Summary, PTO-413

Notice of References Cited, PTO-892 Notice of Informal Patent Application, PTO-152

Notice of Draftsperson's Patent Drawing Review, PTO-948 Other _____

Office Action Summary

Detailed Action

1. Claims 22-32 are presented for examination. This office action is in response to the Amendment filed on 1/22/99.
2. Receipt is acknowledged of information disclosure statements filed on 1/22/99 and 3/2/99, which the statements have been placed of record in the file. Information disclosed and listed on PTO 1449 were considered.
3. The status of the related U.S. applications or patents should be updated and/or included as appropriate in the CROSS-REFERENCE TO RELATED APPLICATIONS section and in any other corresponding area in the specification, if any. (e.g., U.S. Patent Application Serial No. ##### filled Sept. 07, 1990, now abandoned; ..., now U.S. Patent #,###,### issued Jan. 01, 1994; or This application is a continuation of Serial Number #/##,###, filed on December 01, 1990, now abandoned; ...etc.)
4. It is noted that this application appears to claim subject matter disclosed in the co-pending section of this application. Applicants are reminded to maintain a clear line of demarcation between this application and co-pending applications to avoid possible double patenting.

Specification

5. The objection to the title has been withdrawn because of the amendment.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 USC § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

7. Claims 22-32 are rejected under 35 USC 102(b) as being anticipated by *Manning*, U.S. Patent 5,610,864.

As to claim 22, *Manning* discloses the invention as claimed. *Manning* discloses a memory circuit, comprises control logic (Fig. 1 Ref. 38), selection and temporary storage circuit (Fig. 1 ref. 18), and a multiplexer (Fig. 1 Ref. 40) for switching the memory circuit between a burst (col. 6 lines 14-26 and col. 7 lines 43-54) and a pipelined mode of operation (col. 5 lines 43-50).

As to claims 23 and 24, Manning, further discloses external mode select signal and enable signal (Fig. 1 Ref 38).

As to claim 25, Manning, further discloses write enable and output enable (Fig. 2).

As to claim 26, Manning, further discloses a counter (Fig. 1 Ref. 26).

As to claim 27, Manning, further discloses the counter is used in the burst mode (col. 4 lines 47-49).

As to claim 28, Manning further discloses a second external address (col. 5 lines 43-50).

As to claim 29, Manning, further discloses EDO modes (col. 4 line 50).

As to claims 30 and 31, Manning further discloses CAS delay latency during a write and read cycle (Fig. 2).

As to claim 32, Manning further discloses an asynchronously accessible memory array (Fig. 1 and EDO constitutes asynchronous memory, col. 6 lines 14-16).

Response to Amendment

8. Applicant's arguments with respect to claims 22-32 have been considered but are deemed to be moot in view of the new grounds of rejection.

Applicant's argument on page 5 bottom that the reference does not disclose both a pipeline architecture and a burst architecture is not considered persuasive. Manning discloses that other memory architecture applicable to the current invention includes a pipelined architecture (Col. 5 lines 43-45) and the invention have a option of switching between burst and standard modes of operation (Fig. 1). Therefore, broadly written claims are disclose by the references cited.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

1. USP 5,713,011, Jan. 27, 1998, Synchronized data processing system and image processing system; Jun Satoh, et al..
2. USP 5,754,838, May 19, 1998, Synchronous dynamic memory device capable of operating over wide range of operation frequencies; Ken Shibata, et al..

10. A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) days from the mail date of this letter. Failure to respond within the period for response will result in **ABANDONMENT** of the application (see 35 USC 133, MPEP 710.02, 710.02(b)).

11. Applicants are requested to number each line of each claim starting with line number one to provide easier communication in the future.

12. When responding to the office action, Applicant is advised to clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. He or she must also show how the amendments avoid such references or objections. See 37 C.F.R. § 1.111(c).

13. When responding to the office action, Applicants are advised to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist examiner to locate the appropriate paragraphs.

14. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Hong Kim whose telephone number is (703) 305-3835. The Examiner can normally be reached on the weekdays from 8:30 AM to 5:00 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Eddie Chan, can be reached on (703) 305-9712.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Serial Number: 08/984,562
Art Unit: 2751

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Paper No. 8

15. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:

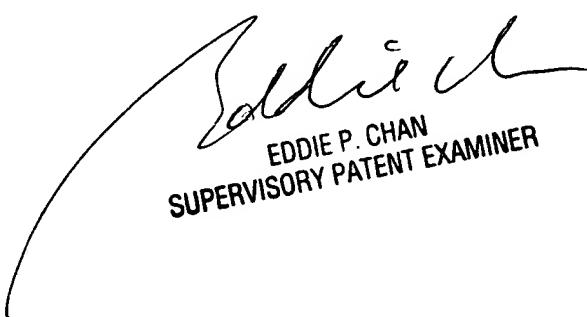
(703) 308-9051-2, (for formal communications intended for entry)

Or:

(703) 305-9731 (for informal or draft communications, please label
"PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

HK
Patent Examiner
April 2, 1999


EDDIE P. CHAN
SUPERVISORY PATENT EXAMINER